

Notice of Allowability

Application No.

09/651,539

Applicant(s)

ADAMS ET AL

Examiner

Art Unit

Hai Tran

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/29/2005.
2. ☒ The allowed claim(s) is/are 17,19,21,24-26,31-34 and 36.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

Claims 17, 19, 21, 24-26, 31-34 and 36 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to anticipate or render the limitation(s), "wherein the multiple elemental streams are transferred between a local memory and the memory of the host compute and the two sets of data descriptors are provided, wherein the first set comprises a local memory frame descriptor and a local memory channel context descriptor, and the second set comprises a host memory frame descriptor and a host memory channel context descriptor" obvious in combination with all other limitations of the claimed independent 17.

The prior art of record fails to anticipate or render the limitation(s), "wherein each of the channel context descriptors include the following fields: (1) a channel N frame descriptor pointer field, which uniquely associates DMA channel N with a particular block of data; (2) a current address field, which points to the current host or local memory byte address as the data transfer progresses; (3) a segment remaining-bytes field which identifies the number of bytes remaining in the current field descriptor segment and is updated in real time as the data transfer progresses; (4) a segment number, which identifies in real time the current segment in the frame used for transfer; (5) an end-of-frame descriptor bit copied from the end-of-frame descriptor bit of the

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frame descriptor to identify whether the current segment is the last in frame; and (6) a channel control byte field” obvious in combination with all other limitations of the claimed independent 33.

The prior art of record fails to anticipate or render the limitation(s), “wherein each of the frame descriptors include the following fields: (1) a segment N pointer field ; (2) a segment N size field, which identifies the size of the Nth segment; (3) and end-of-field descriptor bit to identify the last segment in a frame; (4) a last segment number field, which is updated at the end of the data transfer to identify the last filled segment in the frame used for that transfer; and (5) a remaining bytes field, which is updated at the end of a data transfer to identify the number of bytes remaining in the last segment used for that transfer” obvious in combination with all other limitations of the claimed independent 34.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Tran whose telephone number is (571) 272-7305.

The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher C. Grant can be reached on (571) 272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HT:ht
09/16/2005

A handwritten signature in cursive script, appearing to read 'Hai Tran', is written over three horizontal lines.

HAI TRAN
PRIMARY EXAMINER